Statement

Details of estimated potential and achievement made under various Non-conventional energy sources in the country

	Source/System	Estimated Potential	Achievement (As on 31.03.2000)
1.	Biogas plants (No.)	120 lakh	30.31 lakhs
2.	Improved Chulha (No.)	12 crores	320 lakhs
3.	Biomass		
	a. Biomass Power & Gasifier	17,000 MW	35 MW
	b. Bagasee based Cogeneration	3,5000 MW	222 MW
4.	Solar Photovoltaic	20 MW/sq. km.	50 MW equivalent (about 70 lakhs individual systems)
5.	Solar Thermal	35 MW/sq. km.	—
	Solar Water Heating Systems	30 million square meter collector area	4,67,692 square meter collector area
6.	Wind Power	45,000 MW	1167 MW
7	Small Hydro Power	10,000 MW	216.97 MW
8.	Energy Recovery from wastes	1700 MW	15.74 MW

MW = Mega-watt Sq. km. = Square Kilometer

Availability of Non-conventional energy

416. SHRI RAMACHANDRA KHUNTIA: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) what is the total non-conventional energy available in the country;

(b) what are the sources, and the details thereof;

(c) what is the perspective of getting non-conventional energy in Orissa;

(d) whether there is any action plan for getting non-conventional energy in Orissa; and

(e) if so, the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) and (b) The details of estimated potential in the country and achievements made under various non-conventional energy sources upto 31-3-2000 are given as statement-I. (*See* below)

(c) to (e) The Ministry is implementing a wide range of programmes for the production and development of non-conventional energy sources depending upon technical feasibility and economic viability of available technologies throughout the country including the State of Orissa. A total potential of 6.05 lakhs biogas plants, 54.55 lakhs improved chulhas, 156 MW shall hydro power

and 840 MW of wind power have been estimated in the State of Orissa. The achivements made under various non-conventional energy programmes as on 31-3-2000 and the targets allocated for the year 2000-2001 under major programmes of non-conventional energy sources in the State of Orissa are given as statement-II.

Statement-I

Details of estimated potential and achievement made under various Non-conventional Energy Sources in the country

	Source/System	Estimated Potential	Achievement (As on 31.03.2000)
1.	Biogas plants (No.)	120 lakh	30.31 lakhs
2.	Improved Chulha (No.)	12 crores	320 lakhs
3.	Biomass		
	a. Biomass Power & Gasifier	17,000 MW	35 MW
	b. Bagasee based Cogeneration	3,500 MW	222 MW
4.	Solar Photovoltaic	20 MW/sq. km.	50 MW equivalent (about 7.0 lakh individual systems)
5.	Solar Thermal	35 MW/sq. km.	—
	Solar Water Heating Systems	30 million m^2 collector area	4,67,692 m^2 collector area
6.	Wind Power	45,000 MW	1167 MW
7.	Small Hydro Power	10,000 MW	216.97 MW
8.	Energy Recovery from wastes	1700 MW	15.74 MW

MW = Mega-watt Sq. km. = Square Kilometer

Statement-II

Achievements made under various non-conventional energy programmes and the targets allocated for the year 2000-2001 in the State of Orissa

S. No.	Sources/Systems	Achievements as on 31/3/2000	Targets Allocated for 2000-2001
1.	Biogas plants	15.30 lakhs	10,000 Nos.
2.	Improved Chulha	17.63 lakhs	20,000 Nos.
3.	Integrated Rural Energy Programme	45 blocks	*
4.	Energy Parks	4 Nos.	*
5.	Solar Photovoltaic		
	a. Solar Lantern	5105 Nos.	2500 Nos.
	b. Solar Home Lighting System	1064 Nos.	2000 Nos.
	c. Solar Street Lighting System	5482 Nos.	600 Nos.
6.	Solar Cookers	2981 Nos.	*
7.	Small Hydro Power	1.26 MW	*
8.	Wind Power	1.1 MW	*

MW = Megawatts.

*State-wise targets are not allocated.